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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/890,193	07/26/2001	Kwang-Leong Choy	FRYHP0102US	9311
23908 7	23908 7590 01/14/2005		EXAMINER	
RENNER OTTO BOISSELLE & SKLAR, LLP 1621 EUCLID AVENUE NINETEENTH FLOOR			MCNEIL, JENNIFER C	
			ART UNIT	PAPER NUMBER
CLEVELAND	, OH 44115		1775	

DATE MAILED: 01/14/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	09/890,193	CHOY ET AL.
Office Action Summary	Examin r	Art Unit
	Jennif r C McNeil	1775
Th MAILING DATE of this communication app Period for Reply	pears on the cover sheet with the	correspondence address
A SHORTENED STATUTORY PERIOD FOR REPL' THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period or - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be to y within the statutory minimum of thirty (30) da will apply and will expire SIX (6) MONTHS fror t, cause the application to become ABANDON	imely filed sys will be considered timely. n the mailing date of this communication. ED (35 U.S.C. § 133).
Status	- · · -	
Responsive to communication(s) filed on 18 C This action is FINAL . 2b) ☐ This Since this application is in condition for alloware closed in accordance with the practice under E	s action is non-final. nce except for formal matters, p	
Disposition of Claims		
4) ☐ Claim(s) 20-49 is/are pending in the applicatio 4a) Of the above claim(s) is/are withdray 5) ☐ Claim(s) is/are allowed. 6) ☐ Claim(s) 20-49 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction and/or	wn from consideration.	
Application Papers		
9) The specification is objected to by the Examine 10) The drawing(s) filed on is/are: a) accomplicant may not request that any objection to the Replacement drawing sheet(s) including the correct	epted or b) objected to by the drawing(s) be held in abeyance. Se	ee 37 CFR 1.85(a).
11)☐ The oath or declaration is objected to by the Ex	· • • • • • • • • • • • • • • • • • • •	•
Priority under 35 U.S.C. § 119		
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the prio application from the International Burear * See the attached detailed Office action for a list	s have been received. s have been received in Applica rity documents have been receiv u (PCT Rule 17.2(a)).	tion Noved in this National Stage
Attachment(s)		
 Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 	4) Interview Summar Paper No(s)/Mail I Solution of Informal Solution Other:	

U.S. Patent and Trademark Office PTOL-326 (Rev. 1-04)

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (a) the invention was known or used by others in this country, or patented or described in a printed publication in this or a foreign country, before the invention thereof by the applicant for a patent.
- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 20, 22, 23, 25-28, 31, 32, 35, 37, 38, 40-43, 46, and 47 are rejected under 35 U.S.C. 102(b) as being anticipated by Wickersheim (US 4,560,286). Please refer to the previous office action for the text of the rejection.

Claims 20, 22-28, 31, 32, 35, 37-43, 46, and 47 are rejected under 35 U.S.C. 102(a) as being anticipated by Allison et al (US 5,730,528). Please refer to the previous office action for the text of the rejection.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 21, 29, 30, 33, 34, 36, 44, 45, 48, and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allison et al (US 5,730,528). Please refer to the previous office action for the text of the rejection.

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Art Unit: 1775

Claims 21, 29, 30, 33, 34, 36, 44, 45, 48, and 49 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wickersheim (US 4,560,286). Please refer to the previous office action for the text of the rejection.

Response to Arguments

Applicant's arguments filed October 18, 2004 have been fully considered but they are not persuasive. Applicant argues that the term "thermal barrier coating" has a well-understood meaning in the art, and provides references referring to such coatings. The instant specification does not offer a definition of the term "thermal barrier coating", and the claims must be given the broadest reasonable interpretation. The coatings of Wichersheim and Allison may be considered coatings with thermal barrier properties in that they are comprised of materials that provide at least some thermal protection, and are coated onto the underlying substrate. However thin the coatings may be, they would provide at least some protection to the underlying substrate. The claims do not qualify the thermal protection provided, and no clear definition is provided in the instant specification. Therefore the rejection is held.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer Ç McNeil whose telephone number is 571-272-1540. The examiner can normally be reached on 9AM-6PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Deborah Jones can be reached on 571-272-1535. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jennifer McNeil January 10, 2005